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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/000,404	10/31/2001	Gary A. Gibson	10016679	9086
7590 06/17/2005			EXAMINER	
HEWLETT-PACKARD COMPANY			TRAN, THANG V	
Intellectual Pro	perty Administration			
P.O. Box 272400			· ART UNIT	PAPER NUMBER
Fort Collins, CO 80527-2400			2653	
			DATE MAILED 04/17/000	-

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
Office Action Summan.	10/000,404	GIBSON ET AL.			
Office Action Summary	Examiner	Art Unit			
TI MANUAL DATE AND	Thang V. Tran	2653			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	ely filed will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 10 Ja	anuary 2005.				
2a)⊠ This action is FINAL . 2b)☐ This	action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
 4) Claim(s) 1-21 and 23-30 is/are pending in the at 4a) Of the above claim(s) is/are withdraw 5) Claim(s) 1-14 and 21-27 is/are allowed. 6) Claim(s) 28-30 is/are rejected. 7) Claim(s) 15-20 is/are objected to. 8) Claim(s) are subject to restriction and/or 	vn from consideration.				
Application Papers					
9)☐ The specification is objected to by the Examine	r.				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive u (PCT Rule 17.2(a)).	on No d in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		te atent Application (PTO-152)			

An amendment dated 01/10/05 has been considered with the following results:

Claim Objections

1. Claims 15-20 are objected to under 37 CFR 1.75(a) for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 15:

The term "LASL", after "the storage layer", line 3, should be inserted right after the term "a layer". Otherwise, it is confusing because the term "LASL" is referring to the term "a layer".

Claims 16-20 fall with their parent claim 15.

Note: the same change should be made for step "94" shown in Fig. 7, and in the specification, page 4, lines 18, 33; page 10, lines 17-18; and page 18, line 11.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 28-30 are rejected under 35 U.S.C. 102(b) as being anticipated by Gibson et al (US 5,557,596) cited by Applicant.

Regarding claim 28, see Fig. 4B which show a data storage unit, having a data storage layer (306) with a data storage area (308) for storing data stored thereon, comprising a medium (phase-change material) in the data storage area capable of changing between at least two states (crystalline state and amorphous state), the medium being conducive to providing a substantial contrast (result of changes in optical property as described in column 7, lines 29-32) between the

states in light filtering characteristics (see column 7, lines 22-32, and further see column 5, lines 29-50 suggestion of the use of a light beam (laser beam) to change the state of the phase-change material).

Regarding claim 29 and 30, see column 7, lines 22-32, related to the changes of phase-changes material in crystalline state and amorphous state for the limitations related to the states in light absorbing characteristics or light reflecting characteristics as further recited in these claims.

Allowable Subject Matter

- 4. Claims 1-14 and 21, 23-27 are allowed.
- 5. Claims 15-20 would be allowable if rewritten or amended to overcome the objection to under 37 CFR 1,75(a) set forth in this Office action.

Response to Arguments

- 6. In response to Applicant's arguments filed 01/10/05, Applicant's attention is drawn to Fig. 4B and column 7, lines 22-32, of Gibson et al which clearly describes all limitations as recited in claim 28-30. Applicant's attention is also drawn column 5, lines 29-50, of Gibson et al which also teaches the use of a light beam (laser beam) for changing the state of the phase-change material. Accordingly, Gibson et al does teach all the features as recited in claims 28-30.
- 7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

Application/Control Number: 10/000,404

Art Unit: 2653

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

Page 4

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Thang V. Tran whose telephone number is (571) 272-7595. The

examiner can normally be reached on M-F 9:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, William Korzuch can be reached on (571) 272-7589. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

hangy. Iran

Primary Examiner

Art Unit 2653